

Thermally conductive products

Thermiflex® TF 21054

Description: Thermiflex® TF 21054 is an enhanced thermally conductive film. This product consists of a thermally conductive material, which is covered with a special film.

Properties: The enhancement with the special film and the phase-change temperature of 65°C allow Thermiflex® TF 21054 to be handled easily. The material offers a continuous service temperature of 150°C. Thermiflex® TF 21054 reaches a paste-like consistency at higher temperatures and can be used like a thermally conductive paste (the material won't become runny).

Applications: Thermiflex® TF 21054 was developed to function as a thermally conductive connection between power adapters, which require electric insulations and good heat dissipation.

Colour: green

Delivery forms: Thermiflex® TF 21054 is available as a roll or sheet, as well as a die-cut part upon customer request.

Storage conditions: Thermiflex® TF 21054 should be stored in dry areas at room temperature in its' original packaging.

Dr. Dietrich Müller GmbH

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Property	Test method	Unit	Value
Thickness		Mm	0,13
Tensile strength	ASTM D 8882 A	N/mm ²	210
Relative elongation	ASTM D 8882 A	%	60
Phase-change temperature	DSC	°C	65
Continuous service temperature		°C	150
Thermal conductivity	ASTM D5470	W/mK	0,4
Breakdown voltage	ASTM D149	kV	4,0
Relative permittivity	ASTM D150		3,5
Specific electrical resistance	ASTM D257	Ω · m	>10 ¹⁰
Thermal sheet resistance			
at 17 N/cm ²		K mm ² /W	420
at 345 N/cm ²		K mm ² /W	220

Trademark information: Thermiflex® is a registered trademark of the company Dr. Dietrich Müller GmbH, Germany.

Please note:

The information in this data sheet is based on our current knowledge and experience. They do not disengage the fabricator and the user from own tests and inspections because of the plenty of possible effects. There is no judicial binding assurance of certain properties or of the qualification for a concrete application in our declaration. We recommend consulting us in individual cases. The acceptor of our products has to observe possible industrial property rights as well as present laws by himself.